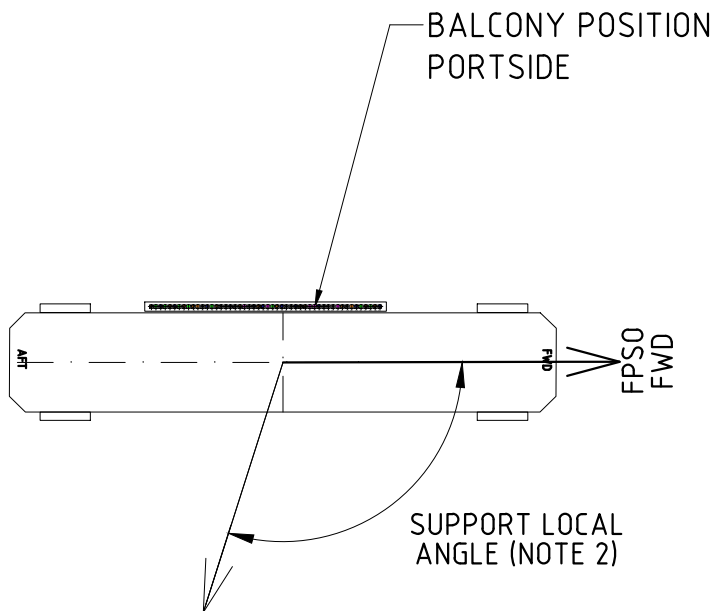
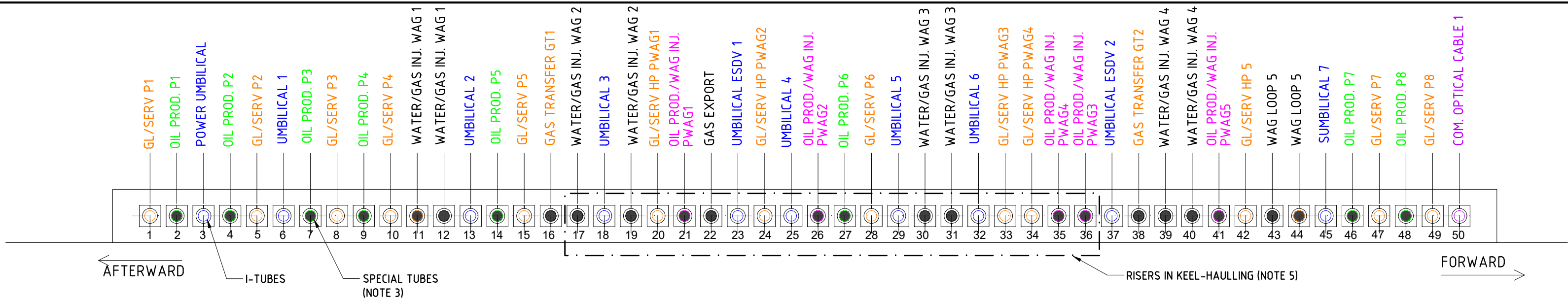




PRELIMINARY INFORMATION
The final drawing will be handed over to contractor at the project kick-off meeting.

No	SUPPORT TYPE	BUNDLE	FUNCTION	RISER ID [IN]	DIRECTION	SUPPORT TOP ANGLE [DEG]	SUPPORT LOCAL ANGLE (NOTE 2) [DEG]
1	I-TUBE/BELL MOUTH	P1	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
2	TSUDL (NOTE 3)	P1	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
3	I-TUBE/BELL MOUTH	POWER UMBILICAL	UMBILICAL	TBD	PORTSIDE	TBD	TBD
4	TSUDL (NOTE 3)	P2	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
5	I-TUBE/BELL MOUTH	P2	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
6	I-TUBE/BELL MOUTH	UMBILICAL 1	UMBILICAL	EHU 12F+CE	PORTSIDE	TBD	TBD
7	TSUDL (NOTE 3)	P3	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
8	I-TUBE/BELL MOUTH	P3	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
9	TSUDL (NOTE 3)	P4	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
10	I-TUBE/BELL MOUTH	P4	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
11	TSUDL (NOTE 3)	WAG1	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
12	TSUDL (NOTE 3)	WAG1	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
13	I-TUBE/BELL MOUTH	UMBILICAL 2	UMBILICAL	EHU 12F+CE	PORTSIDE	TBD	TBD
14	TSUDL (NOTE 3)	P5	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
15	I-TUBE/BELL MOUTH	P5	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
16	TSUDL (NOTE 3)	GT1	GAS TRANSFER	6.5	PORTSIDE	TBD	TBD
17	TSUDL (NOTE 3)	WAG2	WATER/GAS INJECTION	8 (NOTE 6)	STARBOARD	TBD	TBD
18	I-TUBE/BELL MOUTH	UMBILICAL 3	UMBILICAL	EHU 12F+CE	STARBOARD	TBD	TBD
19	TSUDL (NOTE 3)	WAG2	WATER/GAS INJECTION	8 (NOTE 6)	STARBOARD	TBD	TBD
20	I-TUBE/BELL MOUTH	PWAG1	GAS LIFT/SERVICE HP	4	STARBOARD	TBD	TBD
21	TSUDL (NOTE 3)	PWAG1	OIL PROD./WAG INJ.	8	STARBOARD	TBD	TBD
22	TSUDL (NOTE 3)	GAS EXPORT 1	GAS EXPORT	9"	STARBOARD	TBD	TBD
23	I-TUBE/BELL MOUTH	UMBILICAL ESDV 1	UMBILICAL	EHU 10F+CE	STARBOARD	TBD	TBD
24	I-TUBE/BELL MOUTH	PWAG2	GAS LIFT/SERVICE HP	4	STARBOARD	TBD	TBD
25	I-TUBE/BELL MOUTH	UMBILICAL 4	UMBILICAL	EHU 12F+CE	STARBOARD	TBD	TBD
26	TSUDL (NOTE 3)	PWAG2	OIL PROD./WAG INJ.	8	STARBOARD	TBD	TBD
27	TSUDL (NOTE 3)	P6	OIL PRODUCTION	8	STARBOARD	TBD	TBD
28	I-TUBE/BELL MOUTH	P6	GAS LIFT/SERVICE	4	STARBOARD	TBD	TBD
29	I-TUBE/BELL MOUTH	UMBILICAL 5	UMBILICAL	EHU 12F+CE	STARBOARD	TBD	TBD
30	TSUDL (NOTE 3)	WAG3	WATER/GAS INJECTION	8 (NOTE 6)	STARBOARD	TBD	TBD
31	TSUDL (NOTE 3)	WAG3	WATER/GAS INJECTION	8 (NOTE 6)	STARBOARD	TBD	TBD
32	I-TUBE/BELL MOUTH	UMBILICAL 6	UMBILICAL	EHU 12F+CE	STARBOARD	TBD	TBD
33	I-TUBE/BELL MOUTH	PWAG3	GAS LIFT/SERVICE HP	4	STARBOARD	TBD	TBD
34	I-TUBE/BELL MOUTH	PWAG4	GAS LIFT/SERVICE HP	4	STARBOARD	TBD	TBD
35	TSUDL (NOTE 3)	PWAG4	OIL PROD./WAG INJ.	8	STARBOARD	TBD	TBD
36	TSUDL (NOTE 3)	PWAG3	OIL PROD./WAG INJ.	8	STARBOARD	TBD	TBD
37	I-TUBE/BELL MOUTH	UMBILICAL ESDV 2	UMBILICAL	EHU 10F+CE	PORTSIDE	TBD	TBD
38	TSUDL (NOTE 3)	GT2	GAS TRANSFER	8	PORTSIDE	TBD	TBD
39	TSUDL (NOTE 3)	WAG4	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
40	TSUDL (NOTE 3)	WAG4	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
41	TSUDL (NOTE 3)	PWAG5	OIL PROD./WAG INJ.	8	PORTSIDE	TBD	TBD
42	I-TUBE/BELL MOUTH	PWAG5	GAS LIFT/SERVICE HP	4	PORTSIDE	TBD	TBD
43	TSUDL (NOTE 3)	WAG5	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
44	TSUDL (NOTE 3)	WAG5	WATER/GAS INJECTION	8 (NOTE 6)	PORTSIDE	TBD	TBD
45	I-TUBE/BELL MOUTH	UMBILICAL 7	UMBILICAL	EHU 12F+CE	PORTSIDE	TBD	TBD
46	TSUDL (NOTE 3)	P7	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
47	I-TUBE/BELL MOUTH	P7	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
48	TSUDL (NOTE 3)	P8	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
49	I-TUBE/BELL MOUTH	P8	GAS LIFT/SERVICE	4	PORTSIDE	TBD	TBD
50	I-TUBE/BELL MOUTH	OPTICAL CABLE 1	COMMUNICATION	TBD	PORTSIDE	TBD	TBD

REFERENCE DOCUMENTS

- 1- DE-3D10.11-1500-941-PLR-007 Rev. B - PROJECT BÚZIOS-12 SUBSEA LAYOUT.
2- RL-3D10.12-1500-274-PX9-001 Rev. 0 - PROJECT BÚZIOS 12- SUPPORT SELECTION REPORT.
3- I-ET-3D10.12-1350-274-PX9-001 Rev. 0 - PROJECT BÚZIOS 12- ET RISERS SYSTEM REQUIREMENTS

GENERAL NOTES

- 1-REFER [3] FOR I-TUBE/BELLMOUTHS, INTERFACE FLANGES AND SPOOLS SPECIFICATION.
2-LOCAL ANGLES ARE INFORMED IN RELATION TO THE BOW OF THE VESSEL, POSITIVE CLOCKWISE.
3 -THE TSUDL CONCEPT (TUBO SUPORTE UNIFICADO DIVERLESS) ALLOWS THE INSTALLATION OF SLWR WITHOUT DIVERS AID AND IS DETAILED IN THE TECHNICAL REPORT RL-3A36.11-1500-270-PLR-001.
4 -THE LOWER BALCONY ASSEMBLIES ARE GROUPED IN MODULES OF FOUR RISERS.
5 -SUPPORTS 17 TO 36 WILL BE FOR RISERS IN KELL-HAULLING, TEN RISERS ARE EXPECTED TO BE OF THE SLWR TYPE.
6 -THE WAG SUPPORTS SHALL BE CAPABLE OF ACCOMMODATING FLEXIBLE 4" ID RISERS FOR SATELLITE WAG WELLS.

0	ORIGINAL ISSUE	23/01/2025	LADISLAU PEREIRA	GABRIEL ARCANJO	RAFAELLO PEROTTO
REV.	DESCRIPTION	DATE	EXEC.	CHECK	APPROV.

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SUB / ES

CLIENT	BUZIOS				
JOB	BUZIOS FIELD DEVELOPMENT				
AREA	BUZIOS 12				
TITLE	RISER SUPPORTS ARRANGEMENT CONCEPTUAL DESIGN - FPSO BALCONY				
DESIGN	SUB/ES	EXEC.	LADISLAU PEREIRA	CHECK	GABRIEL ARCANJO
SCALE	NO SCALE	DRAWING		SHEET	01 de 01
NP-2					
DATE	23/01/2025	NUMBER	I-DE-3D10.12-1500-941-P56-001		